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NOVEMBER 1957

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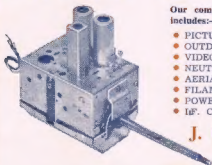
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EDITORIAL



SHORT WAVE LISTENERS' GROUPS

It was gratifying that the Federal President was able to report to the recent Federal Convention that "Short Wave Listeners' Groups are flourishing and many young potentials are becoming interested in this way which, when all is said and done, is the way most of us started out in Amateur Radio ourselves."

There is no doubt that any positive action we can take to interest young people in radio is a step in the right direction and it is hoped that the Councils of all Divisions will do everything possible to develop and encourage Short Wave Listeners' Groups, so that our numbers will be increased by a steady flow of fully licensed Amateurs, who have already gained valuable knowledge of our bands by consistent listening to our methods of procedure and practice.

This section in each Division should be under the charge of some of our most experienced members, as it provides the Institute with a splendid opportunity to commence basic training with the ultimate in mind that these young enthusiasts will join W.I.A. training classes and eventually secure their A.O.C.P. with admission to our ranks as full members.

If this step is too severe, such people would be able to graduate to a standard such as is covered by the Novice License for which they could be more easily trained.

The advent of the Russian satellite has given us another opportunity to show how Amateur Listeners can be of service to the community and if we had strong well organised Short Wave Listeners' Groups in each State of the Commonwealth we would no doubt find many opportunities to continue this work and engage in worthwhile plotting and ionospheric experiments.

Anyone with an interest in National affairs will be able to support the many well informed scientists in this country and overseas who stress the importance of each country having large numbers of trained radio, radar and technical people, and we are sure that the Wireless Institute of Australia can assist the authorities in a real and worthwhile manner by training and encouraging all who desire to further their studies in scientific and technical matters.

The Federal Council trusts that all Divisions will place this matter in the forefront of their interests and would be pleased to know that strong, active groups are flourishing in all Divisions of the W.I.A.

FEDERAL EXECUTIVE.

THE CONTENTS

Using Modern Valves in the Type 3 Receiver	3	C.D.E.N. News	9
Amateurs and Sales Tax	5	DX Activity by VK2QL	10
Polarisation Effects in V.h.f. Mobile	6	Fifty-Six Megacycles and Above 12	
Prediction Chart for Nov., '57	7	W.I.A. Federal President's Report 13	
Amateur Call Signs	7	YL Corner	14
		Federal, QSL, and Divisional Notes	15

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Using Modern Valves in the Type 3 Receiver

BY N. R. BOASE,* VK3NI

THE A.O.C.P. was obtained in 1939, and before operation commenced there was a war on. It is perhaps not surprising then, that the first rig, when the time came, was a Type 3. In fact, it is the only rig the author has ever had much to do with. Experience is thus somewhat limited, and the first feelings when trouble appears are of distaste and dismay. And that is how it was that time when the receiver performance suddenly fell off to practically nil, and the v.c., so far as it worked at all, worked backwards.

The eight pin positions were marked on this circle. The soldering iron was applied to a length of heavy busbar about 1" from the end. The end of the heated busbar pushed easily through the perspex to stick out the other side and form a pin for the adaptor. A miniature base was fitted to the other side of the perspex, supported only by the busbars soldered to its lugs, and an adaptor was obtained.

Care had to be taken in plugging it in—it had no key, only a mark where the key should have been.

Eventually it was noticed that V2A had a very much lower screen voltage than V2B. These are both 7R7s, and an examination of the circuit disclosed no reason why screen voltages should differ. The tubes were swapped and now V2B had the lower screen voltage. Obviously one of the 7R7s was drawing excessive screen current and had reached the end of its useful life. Which one to replace? Base V2A was the easier to get at, so it was chosen.

Now the 7R7 is a duo-diode-pentode. But V2A needs only to be a pentode. The reason for using a 7R7 was, of course, that the number of spares needed was thereby reduced. There seemed no point in using such a tube now, so replaced it with a remote cut-off pentode, a 6BA6.

It was now a really excellent little receiver, better than new, with just one bug—VIB went into oscillation just under full volume. It was assumed this was not due to wiring faults, but simply to inter-electrode capacitances and high-gain conditions. Different values were tried for neutralising condenser C14. It might have been possible to clear up the trouble this way, but with the range of capacitance available at the time it either (a) didn't clear it up, or (b) brought about a too-heavy reduction of gain. Eventually it was silenced with an un-bypassed resistor of 1K in the cathode. While stopping the racket, this did not seem to affect gain materially. The absence of C14 during these experiments did not seem to have any effect at all so was left out. Also, the recommended cathode resistor to V2A was not fitted, and it isn't there still!

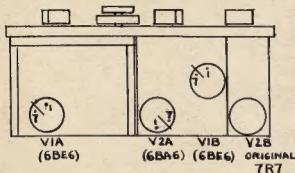


Fig. 1.—Location of gaps between pins one and seven.

This receiver is a very straightforward job when one gets to know it. Over recent months the writer has got to know it—it was to do so or write her off. But at the start of this story it was a mysterious box full of valves, wires, etc.

Volume control on the Type 3 is by bias variation. The power supply delivers —12½v. to the volume control and the grids of the first three valves are returned to the sliding contact. The power supply was checked, in fact delivering its —12½v., and followed this into the set and found that the volume control was OK and duly delivering negative bias at its sliding contact.

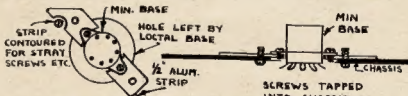
This bias could not be traced through to the actual grids, as the meter draws appreciable current and high impedance filters lay along the path. For the moment, no ideas came to mind. Then a note was discovered in the handbook to effect that if the volume control will not work that means VIB has gone soft. VIB and VIA were swapped; no improvement. So they were both soft! Well, buy a new pair. But the 7Q7 is unprocureable!

After some study it was decided to substitute 6BE6s, and immediately the problem of bases arose. Adaptors were made with less trouble than had been expected. Two pieces of perspex sheet were trimmed into very odd shapes, to make them fit in among the i.f. cans, etc., and sit flat on the bases of VIA and VIB. A circle was drawn on each, whose diameter was equal to the diameter of the circle of pins of a 7Q7.

So eventually the receiver was operating again, with two 6BE6s instead of 7Q7s. She came to life, but (a) she was full of birdies, and (b) the volume control still worked backwards.

Deciding to deal with the troubles one at a time, the birdies were tackled first—a bug which was not unfamiliar.

The wiring in the adaptors was not too much of a tangle, but it was, of



Figs. 2a. and 2b.—Methods of mounting miniature bases.

course, suspect. Anyway, the adaptors made the tubes so tall that the receiver wouldn't go back into its case. So, making careful notes about the connections, the local bases of VIA and VIB were removed and replaced with miniatures. In case you ever have to do this, Fig. 1 shows the better direction for pointing the gap between pins one and seven in the case of each tube, and Figs. 2a and 2b show how to mount the miniature bases in too-large holes.

This improved the birdies a bit, but not much. While gazing gloomily into the works, performance fell way off again. It was tossed in and went to seek a beer or two.

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M27A

AMATEURS AND SALES TAX

SOME COMMENTS IN FEDERAL PARLIAMENT

The following extract from Hansard (H. of R. No. 12, 17th-19th September, 1957) is part of a speech made in the Federal Parliament by the Member for Maranoa, Mr. Brimblecombe. It is printed because Amateurs may find many points of interest.

Mr. Brimblecombe: "... The next matter to which I turn is the sales tax. I know that in this budget some items have been exempted from sales tax and that on other items the rates have been reduced, but I desire to raise the matter of sales tax on the equipment used by Australian 'ham' radio operators. The Wireless Institute of Australia has for many years been asking the Government for some sales tax concessions for parts of equipment used for this very worthy purpose. We all know what a wonderful job these amateur radio operators do in the community. Their wonderful work in providing communications in times of bush fires and floods has been recognised. They have done a remarkable job. As a matter of fact, one of them was decorated with the M.B.E. for his work recently during floods in New South Wales."

Mr. Hayden: "In Maitland."

Mr. Brimblecombe: "Yes. He saved many lives. He has the only means of communication that the floodbombed people had with the rescue workers using 'walkie-talkie' equipment on amphibious ducks and with the outside world. I think I could best put the case of the amateur radio operators by giving a summary of their activities and the reasons why sales tax exemptions should be granted to them."

"The Wireless Institute of Australia is probably the oldest organised body of amateur radio operators in the world and is therefore in the unique position of having fostered the development of communications and technical advances since the inception of the radio art. Much of the pioneering of high frequency, very high frequency and ultra high frequency techniques has been done by enthusiastic amateurs. The records of the institute show that amateur radio operators have made many outstanding contributions in the public interest. As far back as 1911, an amateur radio operator was responsible for saving a ship in distress, and since then radio operators have played a major part in developing and operating bush fire and flood relief networks, the location of missing aircraft and the transmission of traffic to Tasmania during cable breakdowns, and air race communication networks. Apart from this, a vast amount of data has been compiled, and this has played no small part in perfecting the propagation prediction methods used by communication services throughout the world."

"These people also made a wonderful contribution during the two world wars. Amateurs filled important posts in the communication branches of the three fighting services and augmented the ranks of marine operators. Apart from this, the institute conducted basic training classes as its part of the war effort. Between the two wars, the institute organised the Royal Australian Air Force Wireless Reserve and regular

exercises were inaugurated. As a result of this, on the outbreak of World War II, a large number of members immediately joined the armed forces to take up important posts not only in the Royal Australian Air Force, but also in the Navy and Army. Prior training had fitted them to undertake highly technical assignments. In keeping with this policy, since the cessation of the last war the institute has organised emergency networks under the title of Civil Defence Emergency Networks and maintained a high degree of interest. This network is available to the authorities in time of need and has the added advantage of extreme flexibility. When moments of emergency arise due to floods, fires and so on, because of his training and knowledge of equipment the amateur is able to maintain communications. This has been amply demonstrated in recent flood emergencies in New South Wales."

"In the industrial sphere, the amateur has played, and continues to play, an important part. Much of the knowledge acquired in his experiments goes into the perfection of some project or product. Because of his special understanding of frequency modulation and radar techniques, the amateur was able to help materially in the establishment of the television industry, and many are engaged in their own television experiments."

"A firm basic training is fundamentally a part of institute policy. Classes are conducted to train young enthusiasts to the standards required by the Postmaster-General's Department for the amateur operator's certificate of proficiency. Ability to plan and construct is a part of the amateur's make-up. In the early days, each amateur had to design his own equipment, and a major portion of his equipment. Today, although most components can be purchased, it is still necessary to build them into one unit in such a manner as to suit particular requirements. The equipment for emergency networks is specially designed for the work and represents an appreciable outlay, for which the amateur neither receives nor expects reward."

"In order to lessen the cost of equipment, which the amateur uses either to widen his knowledge of electronics, or to help maintain communications in times of emergency, the institute has, from time to time, approached the Commissioner of Taxation with the request that sales tax be removed from components used in communication transmitters and receivers. Unfortunately, the commissioner has been unable to give effect to this request. One difficulty was the policing of such a scheme. The federal executive and divisional councils of the institute, after long and careful investigation, reached the conclusion that a system based on the provision of a special application form allowing sales tax exemption would be workable. Responsible officers of the institute would be willing to investigate the bona fides of any applicant, whether a member of the institute or not, and arrange that the necessary exemption be issued by the taxation authorities. In this way, no extra work

or cost would be incurred by the Taxation Branch. An exemption could be issued to study groups or clubs so that they could purchase equipment for training and stations. In these circumstances, some person would be required to become the responsible officer. These clubs, apart from interesting lads at a very impressionable age, would form vital links in any emergency network."

"Looking to the future, the institute believes that any steps which encourage the training of more personnel in the scientific field are valuable. If some relief from sales tax can be given, the return to Australia in trained and enthusiastic operators will be invaluable."

"Tributes have been paid to this wonderful organisation for the work that it has done. I shall cite a tribute paid by the Postmaster-General (Mr. Davidson) to the work done during the New South Wales floods. He said—and this is reported in 'Amateur Radio,' of October, 1950—

"In a recent broadcast over 2KM Kempsey in connection with the recent widespread floods in New South Wales, I made appreciative reference to the assistance given by the licensees of Amateur Wireless Stations."

"Since then, I have received further information of the part played by members of the Institute, both in the Kempsey area and also in other parts of the State affected. Accordingly, I would now like to confirm in writing the sentiments expressed over 2KM, and to say how pleased I am with the readiness shown, once again, by Amateur Operators to perform a public service, in times of emergency, with the facilities for which they are licensed."

"That speaks volumes for the wonderful work these people are doing. I shall now outline the action the Government if amateur radio operators are given some sales tax concessions. Active amateur operators number about 2,500, and they spend an average of about £20 a year. The total amount spent would be about £50,000. Of this, 25 per cent is sales tax on parts and equipment. Therefore, the cost to the Government would be about £10,000. This is not a great deal to pay for this form of defence preparedness when nearly £200,000,000 is voted for defence in the budget."

"Amateur radio operators do not only do wonderful work in maintaining communications in time of emergency, but also maintain contact with amateur operators in other countries, and even behind the iron curtain. Radio 'hams' throughout the world are in communication with one another day and night. Their contact does a great deal to cement international relationships, and their work in this field should be recognised. I hope that the Government will sympathetically consider the request made by the Wireless Institute of Australia."

"I am able to speak with a little first-hand knowledge on this subject, because I have a 'ham' operator on my property, and I know something of what his radio activities mean. This amateur radio work not only is of wonderful assistance to the community in

(Continued on Page 7)

Polarisation Effects in V.H.F. Mobile*

Some Evaluation Tests on Mobile Antenna Systems for 50 and 144 Mc.

BY EDWARD P. TILTON,† WHDQ

ITS effectiveness in working mobile stations is a time-honoured argument for sticking with vertical polarisation, in the areas where it is still in use. Admittedly, vertical mobile antennae are usually more pleasing to the eye, and mounting them is generally a simpler matter than is the case with any practical horizontal mobile antenna. But skipping the esthetic and mechanical aspects, how important is it that vertical polarisation be used, if satisfactory coverage is to be obtained in working with mobiles on 50 and 144 Mc.?

Many horizontal antennae for 2 metre mobile use have been described in "QST" in recent years.¹ A 6-metre halo was built and described by WIMUX some years ago.² We know how to do the horizontal job; the question here dealt with is how much difference does cross-polarisation make, assuming that a horizontal array is used at the fixed station? To tell our story we'd better start with a description of the antennae used.

HALOS FOR 6 AND 2

For tests on 144 Mc. we used a rather hairy halo made by the writer in a total elapsed time of about 30 minutes. Perhaps other lazy individuals who want to try horizontal mobile antennae would be interested in the mechanical details. The main support is 19" high. It was cut from a section of an old t.v. antenna element, used because it was light in weight, and because its 1" size made a nice tight fit in the sleeve of a standard Amphenol male co-axial fitting. The "no-holes" mount on the rear deck (a clip of stiff aluminium fastened to the inside of the rain gutter with self-tapping screws) has a matching female fitting, and a co-ax lead running up to the dash where the rigs are operated.

The roof-top mounting was made of flashing copper, bent into a cube slightly larger than the co-axial fittings. The inner conductors of the two fittings are connected by a short wire inside the box, and the lips of the box are soldered to a flat plate of flashing copper, about 3" x 6" in size. The plate is held on the car top with black plastic tape, the bottom of the plate having first been covered with tape to prevent its disfiguring the car top in any way. A length of RG-58/U co-ax is brought forward to the rain gutter, and run around to the corner of the door, where it is protected by the rubber bumper on the door casing.

The halo is 4" aluminium rod 38" long, bent into a circle. Ends of the element are about 4" apart, though the exact size of the circle made does not seem to be critical. The co-ax is run

up through the tube, from the co-axial fitting at the bottom, and out through a hole near the top of the support. The black covering is cut back below the point at which the lead emerges, to allow the outer conductor to make contact to ground at that point. The hole should be of such size that the lead with its braid cover will just pull through it.

The inner conductor is the arm of the gamma match, connection being made to the element by means of a small aluminium clamp. Originally a variable capacitor was used in setting up the match. The best value was close to 25 pF., so a fixed capacitor was substituted. Connection at 4" out from the centre of the support provides an s.w.r. of under 1.5 to 1 across a considerable frequency range in this installation. Make your own adjustments of capacitor and connection point, if you like, but do it with an s.w.r. bridge, not a field-strength meter.

The 6-metre halo is a commercially available unit known as the "Saturn 6 Mobileer," made by the Wholesale Supply Co., Lunenburg, Mass. It arrived for technical evaluation just as we were starting tests on 144 Mc., so we decided to make the investigation a two-band project, inasmuch as we already had provision for operation on both 50 and 144 Mc. with vertical whips.

The "Saturn 6" was attached to a standard bumper mount provided by the manufacturer. It stands just over 6 feet above ground in this position. (An extension support for up to 12 feet or so could be used for stationary operation.) The 6-metre whip could be inserted in either the roof-top or rear-deck mounts.

A ski-rack-mounted turnstile for 144 Mc., made by WIDEX, was borrowed for some comparisons. This was originally a single dipole, and as such was pictured in "QST."³ It was converted to a turnstile later, in the hope of providing better omnidirectional characteristics. It consists of two split dipoles fed 90 degrees out of phase through a quarter-wave loop of co-ax.

The home-made halo for 2 was tried in both mounts. It showed somewhat more directional characteristics in the rear-deck position than on the roof-top, but otherwise there was little difference in either transmitting or receiving results. Co-axial leads from all three mounts were brought up to the dash, where a co-axial switch was used to select the antenna desired. Thus, it was possible to make instantaneous changes from horizontal to vertical; while transmitting or receiving on either band. Gonsel Communicators for both bands were used in the tests.

A v.h.f. mobile enthusiast for more than 20 years, with experience in all parts of the United States, the writer has observed the vagaries of v.h.f. propagation firsthand in all sorts of terrain. Most of this work has been done

with vertical whips, though various forms of horizontal antennae have been tried at times. From this experience it was obvious that matched polarisation paid some dividend. Equipment improvements in recent years have netted a considerable extension of our all-round v.h.f. coverage, however, even though there has been an almost country-wide swing to horizontal arrays at home stations, and thus much more cross polarisation in mobile operation with vertical whips.

Where both horizontal and vertical were available at home stations, we had found a few instances where our mobile whip received an equally good signal, regardless of the polarisation at the home station. The degree to which the polarisation seemed to be rolled over has been quite closely related to the roughness of the terrain. Our worst mobile-to-fixed-station coverage, with cross polarisation on both 6 and 2 mx, was in the flat open country of the Middle West. As nearly all past experience with cross polarisation was gained with vertical whips on the mobile and horizontal beams at the fixed station, we were curious to learn whether horizontal systems on the car would show consistent improvement, and if so, how much?

Since the installation of the quick-switch system in the car we've had little opportunity for work over flat terrain, Western New England being mostly up on edge. We have tried all the kinds of paths we can find around the Hartford area, however, and conditions simulating those of flat terrain have been found in spots.

RESULTS ON 144 Mc.

We have used the 144 Mc. facilities of WIDEX-VLH extensively, as the 32-element horizontal array at that West Hartford station is more than 100 feet above ground, clearing all obstacles for a mile or more in all directions. Within five miles signals are so strong that little or nothing can be told about antenna differences, but over the mildly rolling terrain to the southwest signals get "off the pin" at about 7 or 8 miles. To the west, the route the author takes in going home each evening, a steep hill rises about 600 feet above average terrain at a distance of about 2 miles from the fixed station. Over the ridge of the hill the terrain drops even more sharply back to nearly the level of the eastern side, but the route winds behind other hills within 10 miles or so of travel. Hundreds of readings have been taken on 144 Mc. in these areas.

Out to and slightly beyond the visual horizon in open terrain the 2-metre halo shows a consistent superiority, the average in its favour being about 15 db. Very few spots can be found where the vertical whip approaches the signal level afforded by the halo, though both are entirely satisfactory. In the rolling terrain, at distances of 8 to 20 miles

* Reprinted from "QST," December, 1956.

† V.H.F. Editor "QST."

1 "The World Above 50 Mc.," "QST," Feb.

1956, p. 25; Aug., 1956, p. 28.

2 Slices, a "Halo" for Six Metres, "QST,"

Oct., 1947, p. 24.

or so, the margin between the two decreases gradually, running mostly between 6 and 10 db.

Working over the "mountain" (apologies to Westerners) there is also some advantage in matched polarisation, but it is slight. There are many places to be found, by slow jockeying of the car position, where the vertical whip provides as strong a signal as the halo, and there are spots where cross polarisation shows as much as 20 db. superiority. In the town of Collinsville, 12 miles and three ranges of hills to the west, some nearly dead spots can be found. Here many miles and much round-and-round-in-circles driving has shown the average gain with matched polarisation to be just enough to make the difference between the two plainly audible, as little as 3 and 5 db.

On an elevated ridge in Burlington, where signals from all up and down the Connecticut Valley are strong, polarisation discrimination is partially restored. On still higher elevations, where pure line-of-sight obtains, stations many miles distant show very clean polarisation.

One dividend from the use of the halo on 50 Mc. was greatly reduced ignition noise, both from our own car and others. Noise from the writer's car is barely audible at moderate driving speeds, even when the limiter on the Communicator is cut out. Switching to the whip brings in a deafening clatter. Reduction of ignition noise from other cars is at least as marked when the car is at least as marked when the "Saturn" is in use, resulting in a considerable improvement in the readability of weak signals when driving in traffic. Oddly enough, this nice state of affairs did not show to so great a degree on 144 Mc.

Another difference between 50 and 144 Mc. showed up in the course of these checks. It had been observed before in working with the vertical whips, but it became much more obvious with horizontal polarisation. With horizontal antennae at both the fixed and mobile stations, the signals on 50 Mc. are much more constant in level than on 144 Mc. Particularly where the fixed station is using a good beam, the annoying flutter so characteristic of v.h.f. mobile work almost disappears. We have had no end of comments about this from fellows we've worked with the "Mobileer." Unless they watch the S meter closely they find it hard to tell whether we're moving along the highway, or standing still. The fluctuation in signal level on 144 Mc. is somewhat less with horizontal polarisation than with vertical, but it is still plainly noticeable.

SOME RANDOM OBSERVATIONS

What is the respective merit of roof and rear-deck mounting with vertical whips? We've always assumed that the ideal place for a 144 Mc. whip was on the car top, though we have used the rear-deck mounting for esthetic reasons. Our test set-up afforded a fine chance to run down some information along this line. Identical 19" whips were installed on the roof and rear-deck, and then switched back and forth on countless occasions. At a given spot there would be a difference between the two, as multiple reflections happened to add with one and cancel with the other, but

with the car moving along there was no observable difference in average level. If anything, the car body introduced a bit more in the way of directional effects with the rear-deck mount, but the over-all advantage of the roof mount was so slight that we removed it once the testing was completed.

How good is a halo? We knew that both the 6 and 2 metre halos made our reliable range somewhat greater than we enjoyed previously with the whips, but we had no measure of their effectiveness until the 5-metre unit was tested against the 3-element portable array described in August "QST," page 35. The latter was connected into our quick-switch arrangement a few times when we were operating from some of our pet locations. Both it and the "Mobileer" were adjusted for minimum s.w.r. at the frequency of operation, and the rig loaded to the same power input to the antenna. Results: stations worked (at distances from local to 150 miles or so) reported the 3-element beam as two to five S-units stronger than the halo. On reception the difference was estimated at an average of 12 db. A reasonably accurate measure of received signal differential was made with a signal generator, by checking the input signal required for various degrees of green-eye closure on the Communicators.

AND A CONCLUSION OR TWO

Going to horizontal polarisation appeared to give us a definite edge in reliability and coverage over what we have encountered in vertical-to-vertical and cross-polarisation work in the past. Certainly the horizontal combination gives improved signal-to-noise ratio, this difference being particularly marked on 50 Mc.

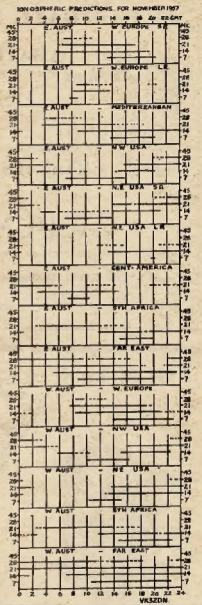
Horizontal at both ends of the circuit makes 6 metre mobile a real pleasure. Contacts with well-equipped home stations are almost noise-free out to 25 miles or so, in all but the worst terrain. Satisfactory communication out to 50 miles is frequently possible, and we've heard some surprisingly good signals at 100 miles or more, while driving in quiet areas. There was no DX during the period of the tests, but we anticipate that the improved signal-to-noise ratio of the halo will make 6 metre DX hunting more fun.

But cross-polarisation, which is likely to cause less trouble if you have an esthetically-sensitive family, is not bad. Conversion to horizontal polarisation on the part of every v.h.f. station in the country would by no means rule out the interesting and useful mobile operation on 6 and 2 metres by the fellow who will have nothing more obstructive on his car than a simple vertical whip.

If you would get the most out of gear for 6 or 2 metres, installed in your car, you'll want to try the horizontal systems. If the wife will take it, you'll want something as good as WIDKE's turnstile for 2, and the "Mobileer" or its equivalent on 6 metres. And don't pass up the portable beam idea. You'll never know the fun of v.h.f. work from the high spots until you pack along the biggest arrays for your favourite band that you can store in the rear deck of your car.

DO NOT FORGET!

The closing date for copy for the January issue is 2nd December.



AMATEURS AND SALES TAX

(Continued from Page 5)

time of emergency, but also is a wonderful hobby, and it should be encouraged. I leave the matter there, Mr. Temporary Chairman. I hope that honorable members will make themselves more familiar with the fine work that amateur radio operators are doing. I am sure that if honorable members learn more about it, they will support the request that these operators be given some concession."

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NEW CALL SIGNS

- VK—** New South Wales
2NV—J V Smith, Farm 937, Griffith.
2XF—C H. Newstead, 6 Coronation Ave., Five-
 Dock.
2ADR—D W. Read, 8 The Avenue, Waitara.
2BZB—M T. Moeckl, "Arasuen," Nyngan.
- Victoria**
3GF W. A. Ferris, 21 Jeffers St., Noble Park
3SF R. W. Tutton, Lot 66, Wentshead Rd.,
 Glenroy.
3AKQ—A E. H. Swindon, 3 Olive Ave., Pascoe
 Vale.
3AMG—C W. Meach, 79 Balclutha Rd., Caul-
 field.
3ATF—R T. Forster, 67 Robinson St., Moonee
 Ponds.
3AUL—A Lock, Snoko, via Bright.
3AWP—G W. T. Mackay, 23 Gloucester Rd.,
 Ashburton.
3ZEM—J L. Morris, 324 Burwood Rd., Bur-
 wood.
3ZEN—J P. Newdick, 11 Rippon St., Footscray
3ZES—H J. Simmons, 293 Gilles St., Fairfield
- Queensland**
4AR—Coolangubra Amateur Radio Club, C/o J.
 Wright, Coorine St., Kirra.
4VW—V J. Wilson, Ann St., Nambour.
4ZBD—D B. Hughes, 1 Miller St., Hill End,
 Brisbane.
4ZBH—T H. Barber, 73 Merston Rd., Kelvin
 Grove, Brisbane.
- South Australia**
5GR—H E. A. Gehrke, 62 Norma St., Mile End.
5LJ—W B. Legg, McPherson St., Penola.
5MP—G S. Coombes, 1 Everett St., Brooklyn
 Park.
5SX—R W. C. Kopp, 9 Matilda St., Eastwood.
5WA—C J. Waterlander, 28 Almond Grove,
 Glendore.
5XM—L M. Mullins, 47 Robert St., Parkside.
5ZBR—K L. Metcalf, 60 Castle St., Edwards-
 town.
5ZBX—B N. Dale, 40 Belleville St., Prospect.
5ZCR—A C. Rechner, 38 Payneham Rd., St.
 Peters.
- Western Australia**
6AJ—A J. Jeffrey, 8 Stone St., South Perth.
6CB—C Rutledge, 449 Charles St., North Perth.
6ZBR—B S. Brewer, 88 Edward St., Osborne
 Park.
- Tasmania**
7AAZ—M P. McGillicuddy, Cable Station, Nara-
 coopa, King Island.
7ZAI—D A. H. Thorne, 308 Park St., Hobart.

CHANGES OF ADDRESS

- VK—** New South Wales
1AZ—H L. Day, 23 Hood St., Yagoona.
1CO—H E. Chinner, 458 President Ave., Kir-
 rawee.
1EA—L Martin, 108 Doble St., Grafton.
1GD—K H. Matton, 35 Boulders Rd., Pymble.
1KW—L D. Wilson, 11 Ross St., Epping.
1LB—T C. Hewitt (Dr.), 51 Uralia St., Lis-
 more.
1YT—G R. Woodward, 48 Cardigan St.,
 Auburn.
1ABK—R C. Gibson, 15 High St., Newcastle.
1AMH—J R. Howard, 45 Kamlaroy Rd., West
 Pymble.

- 2ASH—J** A. Hodgson, 20 Northcott Pde.,
 Wagga Wagga.
2ZCM—S R. McGregor, 3 Walworth Ave., New-
 port.
- Victoria**
3FR—A C. Yeomans, 11 Hillside Rd., Mt. Wav-
 erley.
3HQ—H C. Roberts, Best St., Sea Lake.
3SS—K V. Scott, Princess Highway, Noble
 Park.
3AAM—A H. Seagott, 3 Elystan Crescent,
 Huntingdale.
3ADW—D A. Wardlaw, 21 Tormey St., North
 Ebury.
3JMC—J McDonald, Hampton Villa, Princes
 St., Drysdale.
3AVG—R W. Milatt, 37 Albert Cres., Surrey
 Hills.
3AWC—W J. Currie, 9 Soular St., Eltham 8th.
4ZS—C E. Ryan, 114 Stanley St., Rockham-
 pton.
4ZAV—W A. E. Flannery, Wishart St., Mt.
 Gravatt, Brisbane.
- South Australia**
5CF M. T. Nicholson, Station: McIntosh Ave.,
 Glenosby; Postal: P.O. Box 64, Glenosby.
5EU—H S. Young, 37 Northumberland St.,
 Tumour.
- Queensland**
5TF—F C. Paveell, Main Rd., Clarendon.
5JH—V Chennell, 15 Third Ave., Asot Park.
5KJ—G W. Connon, C/o Station S/LN Resi-
 dence, Pt Lincoln.
5KN—R S. McKenna, Private Rd., Victor
 Harbour.
5ES—R A. Sedunary, 13 Langham Tree, Un-
 bury.
5LJ—G J. Lucas, 19 Wilpena Tree, Kelkenny.
5OX—J Stewart, 51 Fuller St., Waukerville.
5PF—D M. L. Robson, 21 Judd Rd., Elizabeth
 South.
5WR—L Russell, 77 Church Tree, Walkar-
 ville.
5ZDF—A J. Washington, 40 Swaine Ave., Rose
 Park.
- Western Australia**
6DT—W R. Woodley, 33 Marzawa Way, Man-
 jana.

CANCELLED CALL SIGNS

- VK—** New South Wales
20X—J Stewart, Transferred to S.A.
2AA—N W. W. Signals Radio Club.
2AEQ—N S. King
2AKB—K B. Brown
2AVG—C W. Meach, Now VK5AMG.
2AVV—V M. Rowell.
2ZCJ—J V. Smith.
- Victoria**
3BX—G W. Hiltch.
3PC—J Kosacek.
3PC—V W. Purvie.
3SN—M C. Cumming.
3VC—J O'Sullivan.
3ANU—R G. Coffin.
3ARI—R M. Tutton, Now VK2SF.
3ZBA—W A. Ferris, Now VK3GF.
- South Australia**
5RC—R Bennett.
5VW—V J. Wilson.
- Tasmania**
6ZAE—L K. Earp.
- Western Australia**
7RF—R T. Foster, Now VK3ATF.

PERMITS GRANTED FOR TELEVISION EXPERIMENTS

- VK—** New South Wales
2HL—T N. C. Laphorn, 533 Pacific Highway,
 Artarmon.
20LT—T C. Sower, 17 Oaks Ave., Doe Why.
2QZ—T R. H. Black (Dr.), 2 Yerton Ave.,
 Hunters Hill.
2ASPT—R G. Dunford, Dalgaroo St., Coona-
 barabara.
2AVJT—W B. Jones, 30 Little Rd., Bankstown.
2AZGT—J R. Grouse, 17 Ivanhoe St., Mar-
 conibo.
3ZAN—T K. N. North, 18 Gladstone St., Bath-
 urst.
- Victoria**
3HU—T W. A. Brownbdl, 79 Gheringhap St.,
 Geelong.
3HU—T R. J. Highway, 23 Leonard St., Mel-
 bourne.
3A2H—T E. J. Blackney, C/o. Whittington
 P.O., Geelong.

C.D.E.N. NEWS

As outlined in the VK4 Notes for October, on the 25th August, Queensland members of C.D.E.N. were given the opportunity of taking part in full scale exercises designed to explore the effectiveness of C.D.E.N. in the case of a city disaster. Three networks were used—one mobile on 144 Mc band, another mobile on 20 Mc band, and the usual city country network. After the mobile had reconstructed portable units were moved in to take over forward posts as they were established at strategic points. More exercises of this nature will be arranged in all States.

We were pleased to receive a copy of document setting out in detail the practical efforts of the Australian Government to ensure the success of C.D.E.N. in that State.

On 6th October communications specialists assembled at Mt. Macedon Civil Defence School to consider the findings of previous Communications Discussion Groups. The Institute was officially represented by: Bob Goddell VK3JRG; George Robertson, VK3WJ, and Vince Jeffe, VK4VJ. Other members of the Institute were Harry Hannam, VK3; Evan Fall, VK2EF; Herb Sprenger, VK4EE.

Nineteen members were given by members of the Group. The first talk was by Sir Giles Chippendale (Director, Posts and Telegraphs) who was followed by a number of senior officers of his Department. Many aspects of the Department's emergency plans and potential were ably presented.

Representatives of other bodies including two representatives of the Institute (George Robertson and Vince Jeffe) outlined the activities and proposals of their own organisations.

During the progress of the session the Federal Co-ordinator, VK3AG, and the VK3 Co-ordinator, Reg Busch, VK3LS, visited the School and joined in an informal meeting of W.I.A. interstate members. Many interesting and valuable suggestions for the improvement of C.D.E.N. were offered.

One of the most valuable suggestions was that the title of C.D.E.N. be changed to W.I.C.E.N. Such a change would achieve the following advantages:

- (1) The word WICEN in addition to retaining our identity as W.I.A. network, would adequately describe our function, that is Wireless Institute Civil Emergency Network.
- (2) Remove the misconception that C.D.E.N. means our activities are related only to Civil Defence.
- (3) Provide a word suitable for use phonetically, moreover, or as telegraphic address.
- (4) Eliminate any confusion with C.D.O. activities.

Before printing Authorisation Cards, this proposal will be submitted to a vote of Federal Council. When the original title was rejected by Federal Council it was done with the object of extending pre and post war emergency activities to cover every national contingency. The proposed title W.I.C.E.N. seems to aptly cover these requirements as well as providing the additional advantages outlined above.

In conclusion, we must record that both the official and unofficial discussions at Mt. Macedon have been most fruitful and enlightening.

The high esteem in which the Amateur's work in the emergency field is held was clearly indicated by the numerous invita-
 tions to see him integrated into the general communications plan.

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W.I.A. FEDERAL PRESIDENT'S REPORT

"It is my pleasure to present to you the annual report of Federal Executive for the period from 1966 to March, 1967, in particular, but including important matters which have happened since our last Convention in 1963. There have been steady progress on most matters requiring attention, but I hope that the 26th Convention will regularise some of those aspects still outstanding. Turning now to the details of our operations for the period.

MEMBERSHIP

"I am happy to report that our Federal QSL Manager, Ray Johnston, who has carried out his duties in an outstanding manner for over 25 years, was rewarded by being elected a Life Member of the Victorian Division; a small reward for a job well done.

"In January, 1965, the Papua and New Guinea Division of the W.I.A. was officially approved, and I had the privilege in July of that year of opening their station, VQWV, via a tape recording.

"With regard to membership generally, there has only been a small increase overall. Our present figures are unfortunately not very accurate due to the fact that all Divisions are not keeping up the reporting of membership every month—I refer to the detailed statement of all membership grades which your Executive must have in the future. Present figures given are: N.S.W. Victoria 722, Queensland 155, South Australia 369, Western Australia 113, Tasmania 151, and Papua-New Guinea 1. The total increase of 3,366 in membership since December, 1963, up to date is only in the vicinity of 200, not a very large number considering that in the same time there has been an overall increase of Licences from 2,000 to 2,720 to about 3,380—a total increase of 870. It is apparent from these figures that the W.I.A. must take positive steps to encourage more new Licences and others to join and share the privileges of membership. I am disappointed with the results without congratulating the Tasmanian Division who have achieved a pronounced increase in membership whilst other Divisions have just about maintained existing membership.

REGULATIONS

"In May, 1963, the Technician License was introduced and since that time a large number of technically qualified persons have availed themselves of this opportunity to become members on the Limited Amateur Operators Certificate of Proficiency. In November, 1965, the 26-41 Mc band was released in lieu of the 30-54 Mc band which closed at the end of January, 1966. In November we were at long last successful in obtaining permission for Amateur Television Licences and approval for experimenting commenced from the 1st May, 1966. To January, 1967, a total of 46 permits have been granted consisting of 19 in VK2, 17 in VK3, 3 in VK4, 3 in VK5, 3 in VK6, and 1 in VK7 which has now been supplied the Postmaster-General's Department.

"In March, 1966, we successfully negotiated a relaxation in mobile-portable conditions for operation which is already proving to be an incentive for new members to extend their activities. Other negotiations are still under way regarding the change of the M.C.O. rules and the issue of VK3 prefixes to the Northern Territory to mention some of the more important ones. Our press on the Regulations has been slowed down because of more urgent matters, but it is under way. As you know, we took a poll of all members in the change of the M.C.O. Department to 140-155 Mc, in lieu of our existing 144-148 Mc band. The result was most interesting and the results are now being correlated to provide a case opposing the change. In general, our negotiations with the Departmental officers have been on the best of terms and our friendly liaison and co-operation maintained.

POLICY

"An earnest attempt was made to hold a 'get-together' Region III Conference during the period of the Olympic Games in Melbourne in 1966, but from all the Region III Societies only New Zealand and Japan showed any interest and consequently the idea had to be abandoned with reluctance. I still believe it is imperative to pursue this matter, and so that end we have agreed to New Zealand 'rounding out' the Region III area again. In May, 1966, the Region III Societies were re-constituted and re-issued, and the Federal Constitution is now available in the amended form. I must mention the matter of the Federal Constitution which has been the cause of some misconception. Despite contentions to the contrary, your Executive considers they

have acted constitutionally in this matter. The support of six of the seven Divisions indicates confidence in the Executive's action. I trust that the deliberations of the 26th Convention will obviate any such misconceptions in the future.

FINANCE

"The audited accounts and balance sheet are appended herewith as presented by the Federal Treasurer. It is obvious that for an organisation the size of our own, the balance is particularly small and does not allow the Executive the scope they should have to represent the Divisions effectively. I trust this particular aspect will also be overcome in your deliberations during the Convention.

"AMATEUR RADIO" AND "CALL BOOK"

"The present standard of 'Amateur Radio' has been maintained by the Publications Committee under difficult circumstances with rising costs and lack of new advertising the contributing factors. The 'Call Book' has been maintained also, and I think greatly improved since the initial issue, new features and revisions are always in mind commensurate with additional cost. The idea that profits from this publication would flow and improve on the publishers which should not occur in future. I cannot pass on to other matters without high praise for the Editor and his Committee who have done a very difficult and onerous task in the best way possible. They deserve every Division's support to improve our publications still more.

OVERSEAS SOCIETIES

"This year we have maintained our close liaison with the I.A.R.U. the A.R.R.C. the R.S.G.B., the N.Z.A.R.T. and other societies on the fraternal basis. As mentioned else-

where, however, I was most disappointed with regard to most of Region III societies who had not even the courtesy to reply to our circular letter. During the period we approached the Minister for External Affairs to present our sincere hope to the Philippine Government that they would soon allow Amateurs to communicate officially with other Amateurs of the world, and we trust this move has had favourable results.

FEDERAL STATION VK3WIA

"In December, 1963, the Federal Station VK3WIA became active during the Pen Pacific Scout Jamboree held at Clifford Park, near Melbourne, and as a result promoted our objects in encouragement and instruction of radio communication in relation to the Boy Scout Movement. Since that time your Executive has obtained some surplus equipment for the official station and with the present exception of suitable modulation equipment can put a 50-watt c.w. signal on the air. As soon as this equipment is completed it is the intention to put out regular transmissions and official broadcasts on matters of Divisional interest.

CONTESTS AND CERTIFICATES

"The presentation of the W.A.V.K.C.A. Certificate for overseas Amateurs in May, 1965, has evinced great interest in Australia by DX operators everywhere as it is a much sought after award. The rules may well have to be amended due to the recent VK1 call sign change for the Capital Territory and the VK1 change for the Antarctic stations, but we hope that the Northern Territory prefix matter may be cleared at well before the rules are altered. The question of contests has been in the capable hands of the Contest Committee in South Australia, and their report will cover the salient points on this aspect. The reprinting of membership certificates is completed and they are available to Divisions for issue to new members.

"An unfortunate accident occurred to the Remembrance Day Contest Trophy this year (Continued on Page 14)

WIRELESS INSTITUTE OF AUSTRALIA—FEDERAL EXECUTIVE

Balance Sheet as at 28th February, 1967

Current Liabilities		Current Assets	
Creditors	£31 4 7	Commonwealth Trading Assets	£290 12 3
Accumulated Funds—		No. 1 A/c.	11 11
Balance 1/3/66—	£476 4 3	Receives	11 11
Add surplus for the		Debtors	19 16 11
year ended 28/2/67	12 0	Stocks on Hand	104 0 0
	474 16 3		£290 19 10
		Fixed Assets (at cost less depreciation)—	
		Eddystone Model "640"	£15 0 0
		Receives	0 15 0
		Trophy, Remembrance	0 15 0
		Day	0 15 0
		Trophy, Memorial	0 15 0
		Filing Cabinet	0 15 0
		Typewriter	0 15 0
	£506 0 10		£506 0 10

Income and Expenditure Account for year ended 28th February, 1967

Expenditure	Income
Badges	£4 9 0
Trophy Expenses	6 7 0
Printing and Stationery	29 14 3
Certificate	3 5 8
Depreciation	20 13 8
Audit and Accounting	8 6 0
Bank Charges	2 10 0
Postage	11 7 7
Sundries	30 2 0
Telephone	4 8 3
QSL Bureau	10 3 3
Federal Contest Committee	27 11 3
D.X.C.C. Bureau	3 2 1
Entertainment	25 2 7
Profit to Accumulated Funds	12 0 0
	£175 1 0
	£175 1 0

I have examined the books and vouchers of the Wireless Institute of Australia (Federal Executive) in my opinion the Balance Sheet properly drawn up so as to exhibit a true and correct view of the state of the Federal Executive's affairs as at 28th February, 1967, and that the attached Income and Expenditure Account is properly drawn up to exhibit a correct view of the results for the year ended 28th February, 1967, according to the best of my knowledge and the explanations given to me, and as shown in the books. Stock on hand as at 28th February, 1967, has been accepted on the certificate of the Secretary.

R. W. Ellis, Dtp. Com., Chartered Accountant (Aust.).

W.I.A. FEDERAL PRESIDENT'S

REPORT

(Continued from Page 13)

whilst it was in transit, but it has now been restored to its original splendour. Whnerever the Royal Meteorological Commission receive a framed photo in addition to holding the trophy for a period.

CIVIL DEFENCE EMERGENCY NETWORK

"Since the last Convention several national emergencies have occurred which illustrated the usefulness of a properly organized network. It is obvious from the Federal C.D.E.N. Co-ordinator has also had the privilege of attending the Commonwealth Government Civil Defence School, Victoria, on behalf of the W.I.A. Mr. J. Corbin, President of the New South Wales Division this year also attended the school in an official capacity.

"The Federal Co-ordinator has now obtained all the organizational data necessary and forwarded copies to each Division. It is obvious from the Defence School that a network based on sound operating lines must be established for any sudden emergency, and this is the logical role of the W.I.A. I enjoin all Divisions to take the greatest interest in the Federal plan so that our interests and usefulness will be recognized by the Authorities. There are also other avenues into which our energies may be released and you may rest assured that these are being thoroughly explored by Federal Executives.

OLYMPIC GAMES RELAY

"This matter was carried out on an official basis with the Authorities and the Department co-operated to the extent of sending official cablegrams to not only the Greek authorities but also to any countries that might be concerned with the relay. The message of greeting duly left the Olympic village and was relayed by the various stations to VKWT/P situated on Mt. Olympus in Tasmania, whence it was sent via NSW to the W.I.A. The W.I.A. was represented by a Committee and delivered the day prior to the opening of the Games. I wish to express my personal appreciation to all who took part in this relay. I also mention to the Postmaster-General's Department who officially organized the administrative and financial matters of this relay, a task unusual but friendly gesture of goodwill.

MISCELLANEOUS MATTERS

"One of the most important matters that Executive was faced with during the period was in relation to Television receivers not conforming to the standards laid down by the Australian Broadcasting Control Board. Representations were made to the Postmaster-General himself and after much publicity by press and radio the matter was amicably settled. Representations were made to the Postmaster-General himself and after much publicity by press and radio the matter was amicably settled. Representations were made to the Postmaster-General himself and after much publicity by press and radio the matter was amicably settled.

"At present is an application for the exemption from sales tax of equipment purchased by Amateurs for experimental purposes. This has been referred to the Minister of Finance on the past history of the Amateur, especially in relation to his worth to the community, and has been the means of revealing a few incidents which will be duly recorded in the history of the W.I.A. for posterity.

"Short Wave Listeners' Groups are flourishing in many parts of the world and are becoming interested in this way, which when all is said and done, is the way most of us started out in Amateur Radio ourselves. Your younger members are encouraged to take part in this as possible as they will undoubtedly become the Amateurs of tomorrow.

"You may be aware that the past year has been productive of many new privileges, and there remains a number of undelivered matters which the next year should see completed. I wish to express my sincere appreciation to the Awards Manager, the QSL Manager and the Traffic Manager, all of whom carried out their duties with a high degree of efficiency.

"It is with regret that I have to report that Mr. Doug Paine has had to relinquish the post of Federal Traffic Manager and this office will be filled by Mr. Reg Jones, to whom we wish every success.

"My thanks also go to the Contest Committee who have carried out their duties with efficiency and putting on a sound foundation the recording of results of contests and the issuance of certificates and awards.

"It cannot be too strongly stressed without recording the honour bestowed by our Gra-

acious Majesty on Mr. Jim Corbin, VK3YV, and Mr. George Glover, VK3AG, Mr. Corbin's M.B.E. is well known to view of his outstanding work during the N.S.W. flood disasters, and Mr. Glover's Coronation Medal was the result of many years service to Federal Executive Committee in various capacities and Amateur Radio in general. My gratitude is also expressed to all Federal Councillors and other helpers not mentioned here who have all assisted in the well being of the W.I.A. Last but not least are the other members of Federal Executive who have all helped to make our last year a very successful one and supported me in numerous ways. I thank them all for the unselfish manner in which they have assisted me in this task and the confidence to give still more in the future. I can conclude now by assuring you that my own efforts are always at the service of the W.I.A. and that every effort on my own part has been with the prosperity and progress of the Institute in mind."

W. T. S. Mitchell, VK3UM, Federal President.

DO NOT FORGET!

The closing date for copy for the January issue is 2nd December.

FIFTY-SIX MEGS, AND ABOVE

(Continued from Page 13)

Good going Rex, proves your old stamping ground to be a good whet. Interesting ground to note direct in the 50 mhz. band, because ZSBN first heard on a folded dipole, just audible, only just too, and then the switch to the 3 el. yagi which brought the signal in fine.

Joe A3JO using a 16 el. beam and puts a very heavy signal across town 80 anywhere you like—no pale fox. Joe's 16 el. beam and 2000 W. Your signal won't travel east, another quiet one lately is Alf Z2AL, how come Alf? TIEs go up in smoke?

Rumour has it that a number of the Z boys have knocked the mouse over and will be appearing with two letter calls soon. Grape vine quoted ZBH, ZBN, ZDX, ZDF, ZAW and maybe others. The October exam will see another batch trying their luck for mouse as well as number starting from scratch—good luck to them also.—SEF

WESTERN AUSTRALIA

The monthly meeting of the V.H.F. Group was held on Saturday night, 7th Sept., at D.C.A. Amateurs Room. Attendance was not as good as it could have been, so shake it up you fellows! Business was cleared up thanks to our deputy chairman, Frank 6CC, and acting sec. Rolo 8BO. Our usual office bearers, Syd 6SJ and Ralph 6ZAD being unavoidably absent. The highlight of the evening was a very enjoyable lecture by Mr. Alan Jones, of the Astronomical Society, on an event due in the near future, the launch of the first satellite of the Earth Satellite. Mr. Jones covered all aspects of the project aided by photos and diagrams and also plans whereby Radio Amateurs could help with suitable equipment. He also proved himself master of his subject and judging by the vote of thanks, given in the approved manner, a most successful evening.

Saturday night, 21st Sept., saw a number of cars at King's Park ready for the Fox Hunt. At 8015 the signal came on—boy what a signal!—must be close band, is it? Under the call sign 8ZAA/P. After some running about the fox was run to earth at Mill Point—the nearest place to the bridge. Remember 13 is only "Narrow Bridge" is being built. The signal seemed to be sometimes fixed and then mobile, anyway he was very much portable when run to ground. 8ZAY and Roy who ran the car broadcast across the road, at the time Ralph 6ZAD was right behind the fox, so the result was a dead heat. The fox's car was driven by BRK with Wally 8ZAA in the back. Don, by the way, was supposed to be a missing link for the night owing to a previous engagement. I know what it was now—trying to fool us.

The clues make good reading, so here goes: Clue No. 1 open at 1100 hours. "Have you tried the well known bridge?" Remember 13 is only temporary and that you can't walk across it yet. Perhaps you had better look for a boat." Clue No. 2 open at 1200 hours. "Remember!" Carried by boat. Yes a Mayflower—94-355, per courtesy Mr. Don Graham. What a bound. Never mind, it was a good night and chewed over the very enjoyable supper and yarn that followed.—6ZAV.

YL CORNER

BY PHYL MONCUR*

"SATELLITE-ITIS"

We were going to the pictures, we were actually going to have a night out and an event like that, all XYLs will agree I'm sure, doesn't happen very often as there is always a flood or some other such thing to keep the OM home on a Saturday evening. It was to be one night when I could enjoy the sort of thing that normal human beings seem to find exciting. I was to have a night when I could look forward to. For one night in my life I wouldn't have to listen to that incessant "CQ, CQ, CQ" signal it is and so, the line up here is such and such, I'm using a pair of something or other in the final. Oh, if I don't know that routine off by heart.

Then half way through the morning the OM comes tearing down the passage shouting "Quick, turn on the radio, the whole world's gone mad with excitement." Well I didn't know about the whole world, but I certainly see the OM appeared to be imbued with some sort of madness. He was breathless, his eyes were nearly popping out of his head and excitement was a cement in his brain. The sensation he was obviously experiencing. Of course, the news was that the Russian satellite had been successfully launched and it wasn't CQ, CQ, CQ, it was so, the line up here was beginning to feel some of his enthusiasm.

The youngest harmonic started to tune up his crystal set, the senior harmonic got to work on his one-valve, and the eldest harmonic turned on his brain-child, a glorious contraption he has been creating for several months past specially to receive the satellite while the OM made a wild dive to unearth from amongst cob-webs and years of dust, his old six tube The Works, and, sure enough, were all certain they could hear the signal, every scratchy bit of atmospherics was the signal to them. The OM, too, had imagination for the time, but it was a long time before orbit, came nearer to us, a signal came through and there was no mistaking that it was coming from the satellite. The Works, however, and surely it became louder and clearer and we had the feeling we would be hearing key clicks at any moment.

The effect on your feelings was very extraordinary. The sensation dawned on you that such a wonderful feat had been accomplished here in our own time. To Radio Hams an event of this nature is something to be proud of. It had been opened up and even XYLs, both the enthusiastic type and the anti-radio ones, could all appreciate this.

My OM rang up every other OM he knew and even other OM's who knew him, read him also. Life became a series of listening to the signal and telling everybody else about it. The OM was the signal, the signal was the OM, and how long it would stay. How were they managing to transmit on the frequencies they were and how was the signal being received. The OM was the signal, the signal was the OM, and how long it would stay.

Oh yes, we were going to the pictures that night. The OM never gave that another thought. He was so busy listening to the signal and then dismissed it. Do you know, for once in my life listening to Amateur Radio seemed more important than anything else, and that was a first. The OM was the signal, the signal was the OM, and how long it would stay. How were they managing to transmit on the frequencies they were and how was the signal being received. The OM was the signal, the signal was the OM, and how long it would stay.

We didn't go to bed that night till very, very late, we just could not bear to leave the OM. We had to stay up till the very early morning, the signal was still going and to dwell in very pleasant amazement on the fact that this thing had happened. The OM was the signal, the signal was the OM, and how long it would stay. How were they managing to transmit on the frequencies they were and how was the signal being received. The OM was the signal, the signal was the OM, and how long it would stay.

When the satellite began to slow down it was like waiting for the inevitable death of something you regard highly. You didn't want it to stop but wished it could go on forever and ever.

Well maybe Ham Radio and Ham husbands do have their ups and downs, but they are lots of the time, but at times like this, Ham Radio and its allied sciences are just good damn interesting even to the "anti-est of XYLs."

* 233 Union Road, Ascot Vale, Vic.

ANNUAL FIELD DAY N.S.W. DIVISION W.I.A.

will be held on

SUNDAY, NOVEMBER 17

★

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held in the Railway Institute rooms, Castlereagh St. There will be a series of forty-six lectures which will be given by Leon Parr-Smith, 2AJOJ. Full details will be given upon application to the Secretary, Box 1734, G.P.O., Sydney.

The meeting also discussed action to be taken in regard to unfinancial members and it was decided to notify all who are unfinancial and take action in accordance with the Constitution.

The Divisional Field Day will be held at Gosford on Saturday, 17th November at the Gosford Sailing Club premises and adjoining Park. A full programme is being arranged—all the usual events, 7 Mc. scramble, 144 hidden tx hunt, swap section, disposal and events for the XVI, YL and harmonics. Registration will be at 10 a.m. Come along to the Annual Field Day at the new location. A successful day for members of the Hunter Branch on 5th and 6th October. See the Hunter Branch notes for full report.

As these notes are being written much activity is taking place tracking the Russian satellite's transmissions on 35.582 and 45.805 Mc. Among the stations heard comparing notes were 2ADT, 2VH, 2AGH, 2ARG, 2VR, 1AIL, 2APP. No doubt there are many others and it is hoped detailed reports will be sent in to the Federal Secretary for compilation into a complete report from the Amateurs in Australia.

HUNTER BRANCH

The Sept. meeting of the Hunter Branch was held at the usual location with 15 members in attendance. Lionel SCS lectured on a g.d.o. and illustrated his points with a display of gear. Discussion followed on arrangements for the 6th Blackalls Field Day and a committee meeting was arranged for Sept. 25 at SXT's residence to finalise matters.

Quite a few of the locals experienced the peculiar conditions when the Aurora Australis was at its peak on the night of Friday, 15th. Our worthy President, Lionel SCS, was right on the ball and is forwarding a report to the L.G.V. people via VKZ Division HQ.

At Maitland, Vic. 2ARX has been in the news. Vic. who is Deputy Sheriff of that fair city, provided the communication in a mock "hood emergency" staged by the Hunter Civil Defence Organisation. Amongst the transmits on his beloved 10 mhz band, Ernie 2FF, the old "Fox Trot Papa," does not miss any doings on the other bands. Congrats to Vice-President Stewart 2ZDF, who made his debut on 144 Mc. with a DX QSO with Gosford Billiards champ, Bill ZEL, and his pupil Bob 2AGR, have been getting across the Tasman in fine style on 40 mhz phone.

Secretary Chas. IARV is chasing yet another DX award and seems certain to get it. This time it's for QSO with 20 Hams in Virginia this year. All were pleased to hear former Branch member Bill ex-3MC, now TMC, call in on the 2AWK hook-up recently. Varley 3SF is another who has been running regular skeds to ZEL on 7 Mc. phone. Hearty congrats to Bill Nichols, who recently got his ticket, and will be adding to the QRH soon. Ears were pricked when 2BZ's car sign was heard on 40 mhz, but it was Jack 2ADT on the mike. He was staying with Dave during school holidays and visited some of his ex-144 v.h.f. cronies. With spring in the air, our young blood, namely Rodney ECN, can't spare much time for hamming. Lucky boy! Harry 2ARF has had a spot of tx trouble, but received his 60th and 100th countries confirmed and is now applying for his DX C.C. Treasurer Bill 2XT will go to town on h.f. and v.h.f. when he gets new 70 ft. poles (complete with catwalk) erected. A recent visitor to local shack was Harold 2AWL, who was installing v.h.f. gear in this area. Leo 2OB has been having a crack at the Ws on 20 mhz phone in the early evening.

The next meeting of the Branch will be held at the University of Technology at Tighes Hill at 8 p.m. on 8th November. Listen for 2AWK, the official Hunter Branch Station, each Monday evening on or about 7650 Kc. at 3000 hrs.

BLACKALLS FIELD DAY

The attendance at the 6th Hunter Branch Blackalls Field Day, held on 5th and 6th October, was over 100 persons comprising Hams and their families, associates, visitors and the Radio Inspector.

Those present came from Brisbane, Kenney, Muscle Creek, Singleton, Cessnock, Wyong, The Entrance, Gosford, Sydney, Tamworth and elsewhere.

The show opened on Saturday afternoon with heats of the Blindfold Tx Hunt (an event originated by the Hunter Branch). This was followed by a Hidden Tx Hunt on 144 Mc. commencing at 7 p.m. The tx was found by Ken 2ANTU in 25 minutes, closely followed by

John 4FP with Nell Connors, associate, in 2nd place. Films were shown by Vice-President Stewart and the Saturday events concluded with a business discussion with the State President, Percy 2APQ.

The Sunday events commenced with a 144 Mc. Hidden Tx Hunt from 9 a.m. to 11 a.m. The tx was hidden 6 1/2 miles from the Blackalls Park and was found in 35 minutes by Geoff 2VU, in one hour 2 mins. by Harold 2AIAH, and in one hour seven mins. by John 4FP. Following this was the 2W1 broadcast from 2ARF's QTH and the 7 Mc. Scramble at 11.30 a.m.

After lunch further heats of the Blindfold Tx Hunt were held including heats of the Ladies' Blindfold Hunt. The All-Band Scramble was then held and the activities closed with the presentation of prizes and the presentation of a reading lamp to Pat Lougar, the District Radio Inspector, who is being transferred from the district.

The results of the Contests were as follows: Ladies' Blindfold Tx Hunt, Mrs. R. Bailey, 1st; Mrs. G. Sutherland, 2nd. 144 Mc. Hunt (Saturday), Ken 2ANTU, 1st; John 4FP, 2nd. 144 Mc. Hunt (Sunday), Geoff 2VU, 1st; Harold 2AIAH, 2nd. 7 Mc. Scramble, Harold 2AIAH.



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1st: N2M 2A2H, 2nd. All-Band Scramble: Frank ZAPF, 1st, John 4FP, 2nd. Blindfold Hunt: John 4FP, 1st, Noel ZARCH, 2nd. Ladies' Lucky Number: Noel ZARCH. Men's Lucky Number: Norm Otley

The Hunter Branch Social Committee thanks Jim SAIT for making his station available for SWI broadcast, Bill ZXC for providing accommodation at his lakeside QTH, Doug ZADS for providing the hidden tx, Lionel ZCS for selecting the sites for the hidden tx, Les ZAOR for providing the back and forth to any others who may be interested in any way, the Committee extends their thanks.

VICTORIA

By the time these notes are being read all the preliminaries leading up to the Annual BSA Convention to be held at Colac on 9th and 10th November should be about complete. The South Western Zone will also be hoping for fine weather no doubt. Here's hoping they get their wish and the best of luck for a very successful Convention.

The night of the 2nd October was rather cold and attendance at the general meeting at that night was below average. However, those who did attend were well rewarded as that was the night on which the Victorian ZBG, presented an illustrated travelogue on his recent trip abroad. Roth has only recently returned and it was very interesting to hear of his experiences and adventures over the three or four months old. As Roth explained his trip was for business purposes and naturally there was evidence of his lectures but Roth is also a Ham and his observations in this direction were equally well covered for our benefit.

Actually his journey consisted of a trip around the world because after leaving Australia he visited the U.S.A., Great Britain, Europe, the Middle East and then home again to VK.

The slides did not cover the U.S.A. as the camera was not procured until reaching O.B. but Roth made up for any deficiency on this account by giving a brief resume of his travels and country visits. Most of the material of interest was a system he unearthed over there for catching rare DX. Various groups roster themselves for all night vigils, then, when the time comes, they are alerted by a series of means of a very elaborate 2 mhz alarm system. Some blokes sure get keen!

From there on we not only heard about the places visited, but were also shown slides of views from an historic and educational point of view. Roth is to be congratulated on his very able photography and extremely interesting commentary. By means of the latter it was very easy to imagine oneself by the speaker's side at those far away places and I for one was with him at every stage of the voyage.

The only trouble with talks such as these is that they whet your appetite for the real thing. Perhaps the Middle East would be a bit hot and arid for most, but the remainder would be very acceptable. Most of us would like to take up off on my next visit to this globe.

News is a bit hard to glean these days. Except for commercials, activity on the domestic bands is rather scarce of late and those who do operate don't seem to be particularly interested in institute matters or the "Gleaners Agreement". In a way the c.w. men do not assist from their side regarding the latter as they are seldom heard on these bands and so too terribly much on the DX bands for that matter either. It seems a pity that activity, generally, has dropped off in such an extent within VK as spent from keeping the institute organisation alive, this is usually where the newcomer looks for his early contacts. Nothing dangerous about that, for Ham Radio is more than a fruitless searching for QSO's, so for the sake of the older and the newcomer (the backbone of the Institute) alike, what about a local social gathering? QSO's are always plenty on during "tests" so why can't we popularise other forms of activity likewise? Perhaps the days of rag chewing, grids, and round tables are out of date and the days we have regular times, properly organised, for other mutually interesting objects? Has anyone any ideas how to like to all on this subject? If so, let's have them and help to get things cracking.

Complaints of inactivity are also evident in other directions. For instance both the 80 mhz tx hunt and the 3 mhz tx hunt are languishing for the want of support. If more parties are arranged for the benefit of all interested

members and their continuance depends entirely upon your attendance and participation, so what about giving the organisers a little encouragement. These sessions are particularly suited to the newcomer to Ham Radio and all are invited to attend.

This subject can probably be best rounded off by re-stating the old adage that "you only get out of a thing what you put into it". If you are not getting all that you expect out of Ham Radio then why not try putting something into it. These sessions are just what you had there are plenty avenues to go to, untouched. Don't leave things to the enthusiastic few. It's your organisation so protect your interests. Moral support will not do this for you.

Of interest to "slow morose" is the following message copied from ZKX by Don Dawich, of region five in the fire net.

"It is regretted that for technical reasons this broadcast will be discontinued after September, but it is hoped that the service will be available in the New Year."

New members admitted at the October meeting: Full Members—W. H. Kerr (SAWK), W. J. Perry (KGP); Associates—P. D. Inglis, C. McClellan, S. G. Reid, M. S. Madden, D. E. Hosken

MIDLAND ZONE CONVENTION

These notes open with an apology for the absence of any last month, but, unfortunately, the Asian '80 caught up with your correspondent, amongst other things.

The long-awaited Zone Convention to establish a new law and order and to give the very mild fan-fare of one trumpet softly blown by Neville SACN who put in a lot of time and energy towards the organisation of the Convention, with a Gasolapating relay. However, those who did get along to Bendigo found the time passing very agreeably, and enjoyed themselves. Those present included: ZYS, SWJ, ZDG, SAGP, SKO, 3AIME, SED, and ZSAS. SPO was present for a short time on Sunday afternoon. FCG and NARS also made an appearance on Sunday and Neville has informed me that he was calling Pix SARS all week-end. Whether this is a compliment, or otherwise, doubtless depends on where you live. Having no wish to pick a fight, I will remain strictly neutral.

Saturday night was spent at Neville's QTH where a film was screened, followed by supper. Peter Symonds and John Duffin were attended, in an unofficial capacity we are glad to say, as also did 3VV and 2AMK. The new R.I. displayed a transistor portable to the delight of all present.

On Sunday the group visited the local Telephone Exchange where interest was restricted to the apparatus and not the attendants.

On Sunday afternoon a tour of Bendigo mining sights under the able direction of Cyril Michelson was made, and although the only free samples available were taken from the mullock heaps, the history of gold and the quartz veins of the district was explained. In the past must have made some of the visitors

stirrs wish they had been around when it was freely available.

Unfortunately, the small numbers present precluded any large scale activity or official business concerning the zone, but even so, a pleasant week-end was helped along by pleasant company and weather.

The R.D. Contest has been and gone with the most notable performance being displayed by 3ZD who worked stations all night and on into Sunday afternoon. Feeling sore and what tired he decided to have a refreshing bath, but promptly went to sleep in it for the rest of the night. If his score did not become the highest for VK3, at least he will have the honour of being the cleanest operator. 3FV aimed for 330 contacts, but was out of the contest after only 200. A real catch 22! 897 which developed an internal short immediately prior to opening of the Contest. A hard lesson therefor is to check one's bottles beforehand, and not afterwards.

WESTERN ZONE CONVENTION

We had an extra good Convention as 18 full members, 33 initiated, and a number of YLA, YLAs, etc. totalling well over thirty had dinner at the hotel. It was a very successful gathering. Those present came from Serviceton, Bertwick, Ouyen, Sturt, Renmark, Hornsby, Stawell and other places in this area.

The meeting decided to send two agenda items for the State Convention. The Scramble on 40 mhz was won by Allan 3HL, of Calladuff, assisted by Keith 3AKP, of Stawell. The trophy for outstanding contact was won during the past year was won by Max 3ZCW.

Office-bearers for the coming year are: Pres. Bob 3ARM, Vice-Presidents, Trev. 3ATR and Herb. 3NN; Secretary and Treasurer, Bill 3ZCW.

After proceedings finished in Warracombae we all adjourned to Trev. 3ATR's place where he and his good YVL, Lynette, entertained us with afternoon tea. Some of the highlights were able to bring us tea. All were greatly impressed by Trev's transmitter, receiver and antenna set-up. The impressive antenna array consists of lattice masts, each carrying a vertical wire, the various vee beams which originate from the main apex mast. This latter mast also carries the selected selector device, a large dial, which will have to ask Trev, for a detailed description of his set-up as I am sure this information will be of great interest to all, especially those interested in working DX.

EASTERN ZONE

Fine weather gave a good start to the monthly fox hunt which was held on 28th Sept. in Gordon's QTH locality at Yinnar. The Hazelwood Plains proved to be unsatisfactory as the five hounds could follow the fox, Ian 3AAV and Gordon 3TH, by the cloud of dust from the gravel roads. To overcome this, the last run was in the form of a hidden tx hunt, in which Iren became firmly bogged. This always seems a good idea.

David 3DV, Margaret and Stan 3EAB were the winners for the day, making quite a few catches, with a.w.f.s. Ron and Allan from the second, and Geoff Orion third. Jack 3A2K and Terry were fourth and fifth. ZECG and Ken Rogers from North Yallourn were last. Graham 3QZ and Ron 3FR followed the hounds in their car.

Stan, from Yarracombae, was successful in passing his examination, and is awaiting his sign. Graham and his wife are now back from their holiday in the Pacific, Ian 3AAV and George ZECG have now moved into Moe, they are busily setting up their equipment again.

There will be no 2 mhz fox hunt this month as it will be so close to the State Convention being held at Colac. Try and make the State Convention, and ask about your hounds along to put on a great show.

Our next fox hunt will be held on the last Sunday in November at Moe, starting after 1 p.m. Everybody is welcome.

SOUTH WESTERN ZONE

Most news this month is centred on the Geelong-Colac area. By the time this goes to press the State Convention will be ready at Colac, where Chris 3A2XU and Ian 3AAV are hard at work preparing for all and sundry. Gordon is back on 2 mhz and by now should have worked his 100th station. He was heard in Geelong and worked by Ian 3AAV. Jack 33Y is very keen on television, but in spite of this interest, conducted us over the local h.c. station and all had a most enjoyable evening.

W.I.A. VICTORIAN DIV.

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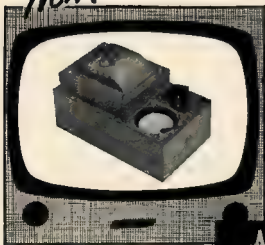
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A night on home-made receivers for Ham bands drew a good crowd and the pros and cons of radio designs was discussed. Converters and their advantages also extended the discussion.

An 80 mhz tx hunt was held in the Lovely Banks area. A good crowd rolled up. Eric Clarke won both hunts by finding Bob 3TC and K. Mills in quick time.

The recent hobby exhibition in our city was a most successful one. Lots of Ham gear and 30 items of equipment were exhibited. 32AY and 3IC did an excellent job with contacts throughout the 80, 40, and 20 mhz bands.

Ted 3AER led a discussion on mobile equipment (he knows all the answers). The type of power supply, whip antenna, receiver requirements, and the mast and a list of points on the above was presented.

Our congratulations to Bill 2BU on his fine recording of signals from the recently released satellite, and his publicity of Ham activities in this location.

See you at the State Convention at Colac on 9th and 10th November.

MOORABBIN AND DISTRICT RADIO CLUB

It's a long time since we have sent in notes on our activities. Here are some to remind those non-atending members that we are still doing strong. Congratulations first of all to Club President, Stan Benson, formerly 3ZEB and now 3ZC, who has been elected to become 3ZE. That speaks for itself. Congrats also to member Jack Hudson, who recently managed to get his 20m now deserted 2 mhz for 10 metres, and Jack is active on 2 mhz. Keep at that key, Jack!

The Club had an emergency get-together on Sunday morning (8th Oct) when we had to turn out in a hurry to remove our antenna masts. The mast had been cleared for a new building. When we got there guy wires on the steel mast had been cut and the mast was to rest on a nearby tree which in turn had been chopped down, thus lowering the mast to the ground.

The new tx (Goleco, 80 pi-coupler) has been built, thanks to the hard work of Cliff Williams, who made the chassis and cabinet, and the new rig. It looks a nice piece of work. Thanks are due to both boys for a fine showing of club spirit, and many thanks to all who donated parts. When we get the gear in, then maybe 3APC will be heard on the band again.

The annual general meeting and election of officers will be held on 10th month on 15th Nov and the annual picnic will be held early in December. Watch for the date.

QUEENSLAND

MARYBOROUGH

4DJ is building a converter with high power gain. Graham has been doing most of his operating on 10 and 40 mhz and soon hopes to have a quad working on 10 mhz. 4CB, after working a W with the top of his 60 ft. tower and has been getting among the DX. He reports four new countries, 4AI and 4GH in the SW Pacific. 4AI doing some work on his table-top rig. 4BG worked UACOM in zone 23 on 14 M.c.w. At Gympie, 4YZ has a new power complete. 4ZL has been working on 7 and 14 mhz. 4XN and 4XR are getting gear going on 2 mhz, so look out you Brisbane 2 mhz men for some DX soon.

TOWNSVILLE

At the last general meeting the boys were very disappointed that Joe 4TH, who was the lecturer for the night, failed to turn up. Quite a number of other stations were also absent. However the 10 members present settled down to a real honest to goodness ragchew. The night was quite quick and 4EL was heard to promise on the air that Ted 4EL would be the first to slip off the stool. VKX and 4KS please note. It was heard on the grassy view that 4WR is disposing of his Ham gear in preparation for assuming double harness. All the best of good wishes from the boys.

Vern 4LK was again unsuccessful in getting a signal on 144 Mc. Trip out to Townsville even though 4ZAK, 4ZAY, 4CE, 4RW were trying to get a different type of antenna to receive him. Norm 4ND, at Home Hill, is back on the air again after a long absence and is busy modifying a receiver for the Ham bands. Bob 4P is busy with his 20m, working and suitably calibrated for all bands, and is asking all and sundry for information. Budd 4ZM appears to be having a spell off the air, which is a pity. Some mail has come in. And 4BW can still be relied upon to come up and give

signal reports and if time permits he will join the ragchews. Alan 4BE, John 4DD and Fred 4S are still managing to work into England on 10 mhz. 4S has been working 80 mhz does not hold in more than 30 minutes at a time. Two associate members will face the barrier on Oct 10th for 2 call signs. The gang wish these members all the best at this time.

Amongst the many visitors this month were 3AER, 3ZAIL, Ron and Lance were visiting the north on 20 mhz. 3ZB and 3ZC were glad they dropped in as I now have my 6CR32 working on 144 Mc. We hope they enjoyed our beer on the beach. 3ZC will be home. He would put me through a Z call sign. He did not have time to put in the mulberry pie though when I dropped in. News is very scarce this month due to the fact that I was unable to listen because of a high noise level and low voltage.

SOUTH AUSTRALIA

If anyone ever kicked against the wind, our lecture last month was 3ZC 3B 3B 3B in a big way. He was to have shared the lecturing with Bob Roper, 3PU who at the last minute decided to take to the cot with 'flu, so Ray valiantly carried on alone. In spite of this Ray did a splendid job, in first of all setting up the gear, some of which he had just purchased and then in giving a most harmonic lectures via power line and methods to minimise them, a vital factor in modern transmitter design. A super-regenerative detector circuit was used to harmonise the very successful one at that due to the squeal when tuned to a signal; the output of this was fed to an audio amplifier to enable all present to hear results.

Ed 8S. Xial osc. was used as a harmonic generator, which gave out readable frequencies to 10 Mc. The power was 100 W. The audio osc. using a 7183 to a 6V6. The power leads from this oscillator hook-up were varnished to prevent a network of fillets, each with different choking and by-passing, which Ray used to demonstrate the effectiveness of the networks.

The field strength meter, as per "A.R." Nov., '58 was demonstrated to the on-site Committee will be using to locate our harmonics when the call to cure" arrives. A very interesting lecture, gave us all a good down-to-earth lecture that gave us plenty to think about and some real ideas of what to do and how to do it.

The lecture was given by the former business of the meeting, including the welcome to 13 visitors, amongst whom were R. S. Sanders, VK4IC and Pat Davidson, VK5KM.

The ballot for disposal of surplus equipment, the indicated net members getting first priority and the remainder shared the rest. By the time this is being read, it is presumed a large number of the sets will have been tried out and ready for use. The announced winners were 4ZL, 4ZM, 4ZN, 4ZO, 4ZP, 4ZQ, 4ZR, 4ZS, 4ZT, 4ZU, 4ZV, 4ZW, 4ZX, 4ZY, 4ZZ, 4ZAA, 4ZAB, 4ZAC, 4ZAD, 4ZAE, 4ZAF, 4ZAG, 4ZAH, 4ZAI, 4ZAJ, 4ZAK, 4ZAL, 4ZAM, 4ZAN, 4ZAO, 4ZAP, 4ZAQ, 4ZAR, 4ZAS, 4ZAT, 4ZAU, 4ZAV, 4ZAW, 4ZAX, 4ZAY, 4ZAZ, 4ZBA, 4ZBB, 4ZBC, 4ZBD, 4ZBE, 4ZBF, 4ZBG, 4ZBH, 4ZBI, 4ZBJ, 4ZBK, 4ZBL, 4ZBM, 4ZBN, 4ZBO, 4ZBP, 4ZBQ, 4ZBR, 4ZBS, 4ZBT, 4ZBU, 4ZBV, 4ZBW, 4ZBX, 4ZBY, 4ZBZ, 4ZCA, 4ZCB, 4ZCC, 4ZCD, 4ZCE, 4ZCF, 4ZCG, 4ZCH, 4ZCI, 4ZCJ, 4ZCK, 4ZCL, 4ZCM, 4ZCN, 4ZCO, 4ZCP, 4ZCQ, 4ZCR, 4ZCS, 4ZCT, 4ZCU, 4ZCV, 4ZCW, 4ZCX, 4ZCY, 4ZCZ, 4ZDA, 4ZDB, 4ZDC, 4ZDD, 4ZDE, 4ZDF, 4ZDG, 4ZDH, 4ZDI, 4ZDJ, 4ZDK, 4ZDL, 4ZDM, 4ZDN, 4ZDO, 4ZDP, 4ZDQ, 4ZDR, 4ZDS, 4ZDT, 4ZDU, 4ZDV, 4ZDW, 4ZDX, 4ZDY, 4ZDZ, 4ZEA, 4ZEB, 4ZEC, 4ZED, 4ZEE, 4ZEF, 4ZEG, 4ZEH, 4ZEI, 4ZEJ, 4ZEK, 4ZEL, 4ZEM, 4ZEN, 4ZEO, 4ZEP, 4ZEQ, 4ZER, 4ZES, 4ZET, 4ZEU, 4ZEV, 4ZEW, 4ZEX, 4ZEY, 4ZEZ, 4ZFA, 4ZFB, 4ZFC, 4ZFD, 4ZFE, 4ZFF, 4ZFG, 4ZFH, 4ZFI, 4ZFJ, 4ZFK, 4ZFL, 4ZFM, 4ZFN, 4ZFO, 4ZFP, 4ZFQ, 4ZFR, 4ZFS, 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The Mount Gambler boys are all going strong. Colin 5CJ sometimes on 40, but mostly on 2. Stewart SMS not heard often but grabs the 40 mhz band. Brian 5CJ has made some alterations to the sky wires changing the leg lengths of the vee beams, putting them up higher and erecting a tower—a lot of activity down his place recently. Tom 5TW back after holidays and on the job whilst Kex 5KU doesn't appear on the bands over much, did the contest last year. David 5IAM has knocked the more over and will be heard with two-letter call soon. Don (Associate) has his h.t. ticket now congrats to him, now follow it up with a 2 and end cracking.

Claude 5CH has himself a new tower which with beam stop will bring the DX that much closer and easier to work. Ron 5BY is in at an opportune time at the other day, just as I was about to give the garden away, so over a cuppa we learned about the doings up the gibber way. SWC The boys there are still keen, even if depleted in numbers these days. Ron busy on mobile gear again now the "bomb" is finished, in fact he said bomb now graduates to the classy car stage and if it is to sport a mobile rig it will really move up still further.

John 5BQ is on the tablets at SWC. QTH recently and an enjoyable evening was had by all—that is except poor DX, but then the bands were bad that night, except one station. I think DX liked the idea of having a cold and his XVI, having taken away his sure-fire cure, to whet a supply of DX. Spoil sports even in KA land apparently.

Wal 5DF, whilst still busy on 50 cycles, manages to get on 40 now and then and also to make the progress on the tablets at SWC. Mack has his rx coming on well and may even out-do Wal yet. Pat 5LT was to have his rig fixed up quad by the end of September, but poor weather on the days the muscles felt like it and good weather when they didn't, slowed the job down a bit, hope he'll be up soon.

George 5GA and Norm 5YM not heard on these days, how come fellows? Even an occasional break will get you into the feeling again, so let's hear their voices.

WESTERN AUSTRALIA

At the Divisional meeting on 17th Sept. the programme included a discussion and demonstration of the "Electronic Key" and "Hand Transmitter Design" by GRU. Jim gave a very able and interesting description of the gear, and this was recorded and broadcast on the following Sunday very successfully.

C.D.E.N. rules are being promulgated for the inauguration of the new radio society and it is in charge of the operations and with his experience in such matters, success is assured. Co-ordination is an essential, and once the network starts to function, an efficient emergency communication system will soon be built up.

As many towns in W.A. are dependent on one single wire for contact with the city, Amateur Radio is the only alternate link for immediate emergency use. Quite a number of "QRP" Amateurs have functioned with willingness to co-operate, and where there are vital gaps that need filling, a special effort will be made to arrange. Amateur participation to provide full coverage.

The 40 mhz scramble took place on 32nd Sept. and from observations there must have been a mass of DX. The 40 mhz scramble was on An hour between 11 and 12 a.m. and another from 3 to 3 p.m. gave ample time for any station to have two complete scratch observations during the day. Over 600 miles separated the northern from the southern QTHs. At the time of writing these notes, results of the scramble have not yet been in, but the winner will receive the President's Trophy. Last year's winner was 6TIL.

This is the first for many years that 6WI has provided good coverage with the 40 mhz band only, and as the winter conditions are now nearly over it should not now be necessary to use the 40 and 40 mhz to cover the near and distant areas.

Short distance communication on 40 and 80 mhz seems to have been little affected by the interference of the sun during the latter part of September. Signal strengths generally remained as usual, or perhaps a little better, but the radio conditions on the more distant stations on these bands.

6GJ and 6TL have given their 101 sets a face-lift and produced a very good portable rig. In addition, 6GJ and 6TL have been on the air for many years on the Goldfields and recently took a few days off to visit the home of the radio society. They had a better day out! 6EE also visited Kalgoorlie and was heard

working portable. 6MO is to move from Watrop when the magnetic observatory is shifted to a location nearer Perth. City Hams should be in the area.

We regret to record the death, during September, of an old timer, John Jamieson, of Kalgoorlie. Although John had not held a call sign for many years, the older members will remember him as the original holder of the call VK6LA.

TASMANIA NORTH WEST ZONE

There is no doubt that we live in a rapidly advancing age. It is only a short time ago that television was head line news as it made its debut in Australia. Now, of course, we have been supplanted with an artificial satellite; Hams throughout the world are "tapped" over their receivers" as our newspaper said, early in October listening to the emitted signal. I presume one would call the transmitter Airborne Mobile! In any case it's right out of this world!

Congrats to Len 7LE and Bill 7Y for their efforts in the matter. Back to more mundane things I guess. Our bi-monthly meeting was held at the home of our new Secretary, Max, at East Devonport. Max asked that I should write up our report on the bench. Receiver that is, not intoxicating liquor. All he needs now is a tx to go with it. There is even a half wave doublet on 40 mhz. Terry Gons, one of our associates, brought along a transistored xtal set. Given loud speaker volume with only 1½ volts on the plate, an emitter or wherever the h.t. goes—it connects. Well, it works anyway, I heard it.

DO NOT FORGET! The closing date for copy for the January issue is 2nd December.

By this time our President, Sid TSH, had arrived, so the meeting commenced. The tape recorder which George travels with for the last two years was produced to replay a lecture given in Hobart recently. Unfortunately, the tape was not working, so severe on two or three occasions during the recording. Good work anyway, George, it worked well.

The meeting closed in harmony with the usual action conducted by Ted 7EJ. I understand Dennis TDR has at last acquired two assets. Forty-cubic feet of space and anybody with a spare helicopter to erect same?

President Sid TSH heard on early in October. Did the satellite scare you, Sid? Leon 7YP paid a recent visit to Burnie on business and was entertained by yours truly at Wynard.

PAPUA—NEW GUINEA

This month I would like to give a big welcome to Mrs. Ruth Donawick who will be the one and only VK3 YL. Ruth hopes to get her old call sign back. She is busy building a house at present so it will be a while before she can get on the air. I would like to welcome an old timer, VK6BP. Bernie has been silent for some time but now he is back in Moreby he hopes to be here for some time. I hope to hear from him again. He will be long before we hear you from your new QTH Bernie and all the best in DX. Doug 8BP has gone GRT. He is moving to a new location and is dreaming of a WJVK antenna which he hopes to get out of the scrap heap. Norm 8NT is pushing as much power up the antenna that he is having trouble keeping power transformers up to it. How many have you blown up now Norm?

I would draw everybody's attention to the slow move transmission from VK6WV every Friday night at 8 p.m. This broadcast continues for one hour and can be heard on 380 Kc. Reports on this transmission will be welcome and should be addressed to the Secretary, Box 204, Port Moresby. Student members may have their own special privileges to "A.R." so if any members of this Division have a pet subject they would like to put forward, they would like to hear it. So what about it chaps?

A letter was received from F.F. reminding members that they can send guest editorials to "A.R." so if any members of this Division have a pet subject they would like to put forward, they would like to hear it. So what about it chaps? Believe Frank 8FN was a very sick boy while crossing the Coral Sea, travelling on the Sunline. He thought you were a better sailor than that Frank. A Christmas break-up dinner

will be held in the Borneo Hotel on 20th December and it is hoped to see a good roll up. If any of the members from New Guinea will be in Moreby on that date we would like to see you there, but please notify the Secretary so that a place can be reserved for you. A good night is assured with plenty of 807s, 866s, and more 813s, and the best part of the evening will be when the XYLs supply 88s as a desert.

The next meeting of the Division will be held on Thursday, 28th November at 8 p.m. in the R.S.L. Club Rooms, and it is hoped we will see a good roll up. Until next month best 73 and good DX.

HAMADS

1/- per line, minimum 3/-.

Advertisements under this heading will only be accepted from Institute Members who desire to dispose of equipment which is their own personal property. Copy must be received by 8th Dec. the month, and remittance must accompany advertisement. Calculation of cost is based on an average of six words a line. Dealers' advertisements not accepted in this column.

FOR SALE: Eddystone "740" with matching spkr., £50 or offer. Enquiries, G. Barham, 10 Beaufort St., Northmead, N.S.W.

FOR SALE: One WS11 with all accessories and cables, in good going order, £12 complete with Speaker. Also a Rotary Converter in excellent order, 24 volts in, 230 volts 50 cycle output, £8. G. Francis, 30 Windsor Avenue, Moe, Vic.

FOR SALE: Receiver BC348P, double converted, noise limiter, S meter, a.c. power supply and speaker. £40. A. Roudie, Croydon Way, Croydon, Vic. MX 1159 (office hours).

FOR SALE: Trimax TA908 Univ. Mod. Transformer, 100w. audio, £10. A. & R. Dye. Transformers: ITF45—p.p. 6L6s, 807s, AB2; IT571—800s, 850Bs, 35Ts, etc. Class B. Two 4X150As, few 809s & 830Bs, all new, half price. A. Brown, 14 Waverley St., Sandringham, Vic. XW 3009.

FOR SALE: 40 and 80 metre Command Tx. TA12 Tx. 3" Ma. Meters. 4 xP. 1000v. Condensers. Valves 812As, 807s, 1625s and misc. gear. No reasonable offer refused. G. Wilson, 31 Glenview St., Greenwich, Sydney (JF 2427).

QRT. For Sale: H. duty dual power supply 300v. 250 Ma., 800v. 200 Ma., 6.3v. and 12v., choke input, 866s, first class job, sacrifice £10. P.a. 814 two metres coils for 20 mhz with fil. trans. on chassis, snap £5. H. duty modulator unit, 807s AB2 with s. amp. and power pack on one chassis, 837, 6C5, 6L6s, needs some under chassis wiring but components in 1st class order, gift £9. A. Shaw, C/o. P.O. South Brisbane, Qld. Phone A/F 6528.

SELL: Collins AN/ART13 Tx, complete with all tubes, cal. xtal and manual (2 x 837, 2 x 811, 1 x 813 new). Nearest offer to £55 takes it. J. K. Herd, Box 73, Wangaratta, Vic.

WANTED: Tuning Unit TU5B, complete. F. J. Sullivan, 26a Queens Ave., Caulfield, S.E.9, Vic. (UL 6886).

WANTED: Tx 10-15-20-40 mhz, 807s par. or sim., pi output, comm. stand. Enclosed design, shielded and t.v. suppressed. No junk. Write J.A.A., C/o Ed. "Amateur Radio."

Homcraft

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Well known brand — stocks must be reduced.
Big Price reduction — Call and inspect.

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Carbon Resist. 1w. 1/- dz.
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A must in the Workshop—16-DRAWER STEEL CABINETS, only 48/6
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OC71 27/9
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No. 1 7/2 ea.
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12" H/D Speaker — Hi-Fi reproduction. (Sorry cannot disclose maker) 10 Gns.

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1 x 11 x 1 12/10 ea.
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Wire in these speaker windings suitable for Crystal Set Coil.
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12V Tester £57/15/9
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MX 32 Multimeter £15/17/6
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All Test Equipment plus 12% per cent. Sales Tax.

SPECIAL

CRYSTAL SETS, 53/6 ea.
All ready to work, complete with Headphone and Aerial, 99/6.

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110v. DC input 230v. output 100w. 15 Gns.
110v. DC input 230v. output 200w. 15 Gns.
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CONVERT YOUR PORTABLE TO AC — POWER PACKS, £5/19/6

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ATTENTION ALL TV VIEWERS! Keep your TV screen free from scratches with this perfect cleaner—4/9 per tube. Does not scratch your screen, keeps it perfectly clean.

EXTRA SPECIAL, CAD/FLATED TV CHASSIS. Will take standard components 39/0

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HIGH QUALITY MULTIMETERS AT BEST VALUE. Pocket size. TK 30 AC DC £3/10/-
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Call in and see our Mr. SAM HURREY. Let him solve your HI-FI problems for you! We are Suppliers of LEAK, QUAD, ARMSTRONG, WILLIAMSON (etc., etc.) equipment.

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FB 3711

TV for the Amateur

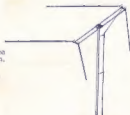
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Illustration of Tile Clip and Insulator in position.



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